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ISPRS Journal of Photogrammetry and Remote Sensing, Volume 56, Issue 3, April 2002, Pages 195-209
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Water Science and Technology, Volume 31, Issue 2, 1995, Pages 161-170
E. Ayesa, G. Oyarbide, L. Larrea and J.L. García-Heras
Abstract

12. **Application of H_∞ control to active suspension systems** • ARTICLE
Automatica, Volume 30, Issue 11, November 1994, Pages 1717-1729
Masashi Yamashita, Kazuo Fujimori, Kisaburo Hayakawa and Hidenori Kimura
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1 A new networking model for biological applications of ad hoc sensor networks
Zygmunt J. Haas, Tara Small
February 2006 **IEEE/ACM Transactions on Networking (TON)**, Volume 14 Issue 1
Publisher: IEEE Press
Full text available: pdf(703.76 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce the Shared Wireless Infostation Model (SWIM), which extends the Infostation model by incorporating information replication, storage, and diffusion into a mobile ad hoc network architecture with intermittent connectivity. SWIM is able to reduce the delay of packet delivery at the expense of increased storage at the network nodes. Furthermore, SWIM improves the overall capacity-delay tradeoff by only moderately increasing the storage requirements. This tradeoff is exami ...

Keywords: SWIM, animal monitoring, biological data acquisition, capacity-delay tradeoff, data dissemination, delay-tolerant networks, epidemic modelling, epidemic routing, flooding, sensor networks, sparse networks, stochastic routing, store-carry-forward, wireless infostation model

2 Parallel and distributed systems and networking: A particle swarm model for swarm-based networked sensor systems
B. Anthony Kadrovach, Gary B. Lamont
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(614.37 KB) Additional Information: full citation, abstract, references, citings, index terms

Swarm behavior as demonstrated by flocks of birds, schools of fish, and swarms of insects provide a useful method for implementing a distributed network of mobile sensor platforms. Such mobile sensor swarm systems are useful for various search or surveillance activities. Swarm behavior ensures safe separation between swarm members while enforcing a level of cohesion. These two properties, when considered in the context of sensors and wireless communications, provide for low redundancy coverage a ...

Keywords: distributed processing, networking, particle swarms, robotics, wireless

3 Modeling Node Compromise Spread in Wireless Sensor Networks Using Epidemic Theory

Pradip De, Yonghe Liu, Sajal K. Das

June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**

Publisher: IEEE Computer Society

Additional Information: full citation, abstract

Motivated by recent surfacing viruses that can spread over the air interfaces, in this paper, we investigate the potential disastrous threat of node compromise spreading in wireless sensor networks. Originating from a single infected node, we assume such a compromise can propagate to other sensor nodes via communication and preestablished mutual trust. We focus on the possible epidemic breakout of such propagations where the whole network may fall victim to the attack. Based on epidemic theory, ...

Keywords: Sensor Networks, Epidemiology, Random Key Predistribution, Random Graph.

4 Oral presentation session 1: In network modeling, processing, & optimization: Distributed regression: an efficient framework for modeling sensor network data

Carlos Guestrin, Peter Bodi, Romain Thibau, Mark Paski, Samuel Madde

April 2004 **Proceedings of the third international symposium on Information processing in sensor networks IPSN '04**

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms

We present *distributed regression*, an efficient and general framework for *in-network* modeling of sensor data. In this framework, the nodes of the sensor network collaborate to optimally fit a global function to each of their local measurements. The algorithm is based upon *kernel linear regression*, where the model takes the form of a weighted sum of local basis functions; this provides an expressive yet tractable class of models for sensor network data. Rather than transmitti ...

Keywords: distributed algorithms, machine learning, regression, wireless sensor networks

5 Security: Analyzing and modeling encryption overhead for sensor network nodes

Prasanth Ganesan, Ramnath Venugopalan, Pushkin Peddabachagari, Alexander Dean, Frank Mueller, Mihail Sichitiu

September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: pdf(254.57 KB) Additional Information: full citation, abstract, references, index terms

Recent research in sensor networks has raised security issues for small embedded devices. Security concerns are motivated by the deployment of a large number of sensory devices in the field. Limitations in processing power, battery life, communication bandwidth and memory constrain the applicability of existing cryptography standards for small embedded devices. A mismatch between wide arithmetic for security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combined ...

Keywords: analysis, embedded systems, encryption overhead, model, sensor networks

6 Embedded applications: Encryption overhead in embedded systems and sensor

network nodes: modeling and analysis
Ramnath Venugopalan, Prasanth Ganesan, Pushkin Peddabachagari, Alexander Dean, Frank Mueller, Mihail Sichitiu
October 2003 **Proceedings of the 2003 international conference on Compilers, architecture and synthesis for embedded systems**
Publisher: ACM Press

Full text available: pdf(293.59 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent research in sensor networks has raised issues of security for small embedded devices. Security concerns are motivated by the deployment of a large number of sensory devices in the field. Limitations in processing power, battery life, communication bandwidth and memory constrain the applicability of existing cryptography standards for small embedded devices. A mismatch between wide arithmetic for security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combi ...

Keywords: embedded systems, encryption, security, sensor networks

7 Oral presentation session 1: In network modeling, processing, & optimization: Entropy-based sensor selection heuristic for target localization
Hanbiao Wang, Kung Yao, Greg Pottie, Deborah Estrin
April 2004 **Proceedings of the third international symposium on Information processing in sensor networks IPSN '04**
Publisher: ACM Press

Full text available: pdf(270.37 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We propose an entropy-based sensor selection heuristic for localization. Given 1) a prior probability distribution of the target location, and 2) the locations and the sensing models of a set of candidate sensors for selection, the heuristic selects an informative sensor such that the fusion of the selected sensor observation with the prior target location distribution would yield on average the greatest or nearly the greatest reduction in the entropy of the target location distribution. The heu ...

Keywords: Shannon entropy, information fusion, information-directed resource management, mutual information, sensor selection, target localization, target tracking, wireless sensor networks

8 Routing and MAC: Energy-efficient forwarding strategies for geographic routing in lossy wireless sensor networks
Karim Seada, Marco Zuniga, Ahmed Helmy, Bhaskar Krishnamachari
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**
Publisher: ACM Press
Full text available: pdf(624.02 KB) Additional Information: full citation, abstract, references, index terms

Recent experimental studies have shown that wireless links in real sensor networks can be extremely unreliable, deviating to a large extent from the idealized perfect-reception-within-range models used in common network simulation tools. Previously proposed geographic routing protocols commonly employ a maximum-distance greedy forwarding technique that works well in ideal conditions. However, such a forwarding technique performs poorly in realistic conditions as it tends to forward packets on ...

Keywords: blacklisting, geographic routing, wireless sensor networks

9 Synchronization: Firefly-inspired sensor network synchronicity with realistic radio effects

Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika Nagpal
November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**
Publisher: ACM Press
Full text available: pdf(564.48 KB) Additional Information: full citation, abstract, references, index terms

Synchronicity is a useful abstraction in many sensor network applications. Communication scheduling, coordinated duty cycling, and time synchronization can make use of a synchronicity primitive that achieves a tight alignment of individual nodes' firing phases. In this paper we present the *Reachback Firefly Algorithm (RFA)*, a decentralized synchronicity algorithm implemented on TinyOS-based motes. Our algorithm is based on a mathematical model that describes how fireflies and neurons spon ...

Keywords: biologically inspired algorithms, pulse-coupled oscillators, synchronization, wireless sensor networks

10 Modeling methodology a: Next generation modeling II - applications: experiencing natural phenomena with virtual, constructed and mathematical models

Stephan Diehl, Carsten Görg
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Publisher: Winter Simulation Conference
Full text available: pdf(491.37 KB) Additional Information: full citation, abstract, references

In this paper we discuss how different kinds of models can be combined in an educational setting to enable students to experience natural phenomena, here earthquakes. Different tools enable students to manipulate virtual models, construct physical models and formulate mathematical models. Ideally, the modelling processes and the resulting models complement each other to some degree. Virtual and physical models can then be driven by real data as well as mathematical models of the phenomena.

11 Platform based design for wireless sensor networks

Alvise Bonivento, Luca P. Carloni, Alberto Sangiovanni-Vincentelli
August 2006 **Mobile Networks and Applications**, Volume 11 Issue 4
Publisher: ACM Press
Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, index terms

We present a novel methodology for the design of interoperable Wireless Sensor Networks (WSN). The methodology is based on the principles of Platform Based Design (PBD). PBD is a meet-in-the-middle approach where the top-down refinement of a design specification meets with bottom-up characterizations of possible alternative implementations. The design space exploration is performed based on estimates of the performance of the candidate solutions so that the overall design process is considerably ...

Keywords: design automation, platform based design, sensor networks

12 Three-dimensional object recognition

Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1
Publisher: ACM Press
Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(7.76 MB) terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

13 Exposure in wireless sensor networks: theory and practical solutions

Seapahn Megerian, Farinaz Koushanfar, Gang Qu, Giacomino Veltri, Miodrag Potkonjak
September 2002 **Wireless Networks**, Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(294.60 KB) Additional Information: full citation, abstract, references, index terms

Wireless ad hoc sensor networks have the potential to provide the missing interface between the physical world and the Internet, thus impacting a large number of users. This connection will enable computational treatments of the physical world in ways never before possible. In this far reaching scenario, Quality of Service can be expressed in terms of accuracy and/or latency of observing events and the overall state of the physical world. Consequently, one of the fundamental problems in sensor n ...

Keywords: coverage, exposure, network, sensor, wireless

14 R1-A: sensors--clustering & selection: Analysis of mobile beacon aided in-range localization scheme in ad hoc wireless sensor networks

Srinath T V, Anil Kumar Katti, Ananthanarayna V S
July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**

Publisher: ACM Press

Full text available: pdf(225.86 KB) Additional Information: full citation, abstract, references, index terms

In this paper, We mathematically model the In-Range localization scheme in the presence of a Mobile Beacon. In the In-Range localization scheme, a sensor with unknown location is localized to a disc centered at the position of the beacon, if the sensor under consideration can successfully decode a transmission from the beacon. In our approach a Mobile Beacon guided by a mobility model is used to generate the virtual beacons, there by eliminating the need to deploy static beacons that are require ...

Keywords: Random Way Point, in-range localization, localization, mobile beacon, mobility models, sensor networks, wireless sensor networks

15 Lifetime Modeling of a Sensor Network

Vivek Rai, Rabi N. Mahapatra
March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '05**

Publisher: IEEE Computer Society

Full text available: pdf(115.35 KB) Additional Information: full citation, index terms

16 Special section on sensor network technology and sensor data managment: An environmental sensor network to determine drinking water quality and security

Anastassia Ailamaki, Christos Faloutos, Paul S. Fischbeck, Mitchell J. Small, Jeanne VanBriesen

December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(72.40 KB) Additional Information: full citation, abstract, references

Finding patterns in large, real, spatio/temporal data continues to attract high interest (e.g., sales of products over space and time, patterns in mobile phone users; sensor networks collecting operational data from automobiles, or even from humans with wearable computers). In this paper, we describe an interdisciplinary research effort to couple knowledge discovery in large environmental databases with biological and chemical sensor networks, in order to revolutionize drinking water quality and ...

17 A volumetric method for building complex models from range images

Brian Curless, Marc Levoy
August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
Full text available: pdf(755.30 KB) Additional Information: full citation, references, citings, index terms

Keywords: isosurface extraction, range image integration, surface fitting, three-dimensional shape recovery

18 Algorithms for multihop networks II: Initializing newly deployed ad hoc and sensor networks

Fabian Kuhn, Thomas Moscibroda, Roger Wattenhofer
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(367.06 KB) Additional Information: full citation, abstract, references, index terms

A newly deployed multi-hop radio network is unstructured and lacks a reliable and efficient communication scheme. In this paper, we take a step towards analyzing the problems existing during the initialization phase of ad hoc and sensor networks. Particularly, we model the network as a multi-hop quasi unit disk graph and allow nodes to wake up asynchronously at any time. Further, nodes do not feature a reliable collision detection mechanism, and they have only limited knowledge about the network ...

Keywords: ad-hoc networks, asynchronous wake-up, clustering, distributed algorithms, dominating set algorithms, initialization, sensor networks

19 Sensor deployment and target localization in distributed sensor networks

Yi Zou, Krishnendu Chakrabarty
February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(294.46 KB) Additional Information: full citation, abstract, references, index terms, review

The effectiveness of cluster-based distributed sensor networks depends to a large extent on the coverage provided by the sensor deployment. We propose a virtual force algorithm (VFA) as a sensor deployment strategy to enhance the coverage after an initial random placement of sensors. For a given number of sensors, the VFA algorithm attempts to maximize the sensor field coverage. A judicious combination of attractive and repulsive forces is used to determine the new sensor locations that improve ...

Keywords: Cluster-based sensor networks, cluster head, sensor field coverage, sensor placement, virtual force

20 Model-based object recognition in dense-range images—a review

Farshid Arman, J. K. Aggarwal

March 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(3.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The goal in computer vision systems is to analyze data collected from the environment and derive an interpretation to complete a specified task. Vision system tasks may be divided into data acquisition, low-level processing, representation, model construction, and matching subtasks. This paper presents a comprehensive survey of model-based vision systems using dense-range images. A comprehensive survey of the recent publications in each subtask pertaining to dense-range image object recogni ...

Keywords: 3D object recognition, 3D representations, CAD-based vision, dense-range images, image understanding

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 Signal Processing Letters, IEEE
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2. **Continuous harmonic state estimation of power systems**
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 Generation, Transmission and Distribution, IEE Proceedings-
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3. **A Methodology to Monitor the Changing Trends in Health Status of an Elderly Person by De Model**
 Kaushik, A.R.; Celler, B.G.; Ambikairajah, E.;
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 Lorga, J.F.M.; van Rossum, W.; van Halsema, E.; Chu, Q.P.; Mulder, J.A.;
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 26-29 April 2004 Page(s):249 - 258
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Cascella, G.L.; Salvatore, N.; Salvatore, L.;
Industrial Electronics, 2003. ISIE '03. 2003 IEEE International Symposium on
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PGPUB-DOCUMENT-NUMBER: 20050091294
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050091294 A1

TITLE: System for estimating model parameters

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tuken, Taner	Cedar Falls	IA	US
Carey, David M.	Lino Lakes	MN	US

US-CL-CURRENT: 708/200

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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PGPUB-DOCUMENT-NUMBER: 20040097782
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DOCUMENT-IDENTIFIER: US 20040097782 A1

TITLE: Optimized pulsatile-flow ventricular-assist device and total artificial heart

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Korakianitis, Theodosios	St. Louis	MO	US
Grandia, Lonn	Brussels	IL	US

US-CL-CURRENT: 600/16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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PGPUB-DOCUMENT-NUMBER: 20040061567
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040061567 A1

TITLE: Method for tuning a radio filter, a radio filter and a system comprising such a radio filter

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mattsson, Thomas	Taby		SE
Jansson, Anders	Taby		SE

US-CL-CURRENT: 333/17.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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PGPUB-DOCUMENT-NUMBER: 20030092961
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030092961 A1

TITLE: Optimized pulsatile-flow ventricular-assist device and total artificial heart

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Korakianitis, Theodosios	St. Louis	MO	US
Grandia, Lonn	St. Louis	MO	US

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☐ 4. Document ID: US 20030032853 A1

L2: Entry 4 of 6 File: PGPB Feb 13, 2003

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DOCUMENT-IDENTIFIER: US 20030032853 A1

TITLE: Optimized pulsatile-flow ventricular-assist device and total artificial heart

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Korakianitis, Theodosios	St. Louis	MO	US
Grandia, Lonn	Brussels	IL	US

US-CL-CURRENT: 600/16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 6987427 B2

L2: Entry 5 of 6 File: USPT Jan 17, 2006

US-PAT-NO: 6987427
DOCUMENT-IDENTIFIER: US 6987427 B2

TITLE: Method for tuning a radio filter, a radio filter and a system comprising such a radio filter

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US 20040061567 A1	April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mattsson; Thomas	Taby			SE
Jansson; Anders	Taby			SE

US-CL-CURRENT: 333/17.1; 455/125

Full | Title | Citation | Front | Review | Classification | Date | Reference | [illegible] | Claims | KWMC | Draw De

☐ 6. Document ID: US 6632169 B2

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US-PAT-NO: 6632169
DOCUMENT-IDENTIFIER: US 6632169 B2
**** See image for Certificate of Correction ****

TITLE: Optimized pulsatile-flow ventricular-assist device and total artificial heart

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Korakianitis; Theodosios	St. Louis	MO		
Grandia; Lonn	Brussels	IL		

US-CL-CURRENT: 600/16

Full | Title | Citation | Front | Review | Classification | Date | Reference | [illegible] | Claims | KWMC | Draw De

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MATHEMATICALS	5